

AMENDMENTS TO THE CLAIMS

1-4. **(Canceled)**

5. **(Currently Amended)** A An acrylic polymer composition having antimicrobial activity, said composition comprising:  
an acrylic polymer material;  
2,4,4'-trichloro-2'-hydroxydiphenyl ether; and  
orthophenyl phenol;  
wherein the 2,4,4'-trichloro-2'-hydroxydiphenyl ether and orthophenyl phenol are incorporated into the acrylic polymer material.

6. **(Original)** A polymer composition according to claim 5 wherein the combined weight concentration of the 2,4,4'-trichloro-2'-hydroxydiphenyl ether and the orthophenyl phenol in the polymer composition is between about 250 ppm and 50,000 ppm based upon the weight of the polymer.

7. **(Original)** A polymer composition according to claim 6 wherein the weight ratio of 2,4,4'-trichloro-2'-hydroxydiphenyl ether to orthophenyl phenol in the composition is between 90:10 and 10:90.

8. **(Original)** A polymer composition according to claim 7 wherein the weight ratio of 2,4,4'-trichloro-2'-hydroxydiphenyl ether to orthophenyl phenol in the composition is between 60:40 and 40:60.

9. **(Original)** A polymer composition according to claim 6 wherein the 2,4,4'-trichloro-2'-hydroxydiphenyl ether is present between about 1000 ppm and 2500 ppm and the orthophenyl phenol is present between about 1000 ppm and 2500 ppm.

10. **(Original)** A polymer composition according to claim 5 in the form of a cast acrylic polymer.
11. **(Original)** A polymer composition according to claim 5 in the form of an extruded polymer.
12. **(Original)** A polymer composition according to claim 5 in the form of a thermoformable sheet.
13. **(Original)** A polymer composition according to claim 5 in the form of a curable resin composition.
14. **(Original)** A polymer composition according to claim 5 in the form of a surface coating layer supported on a substrate material.
15. **(Original)** A polymer composition according to claim 5 which is in the form of a molded article or a component of a molded article.
16. **(Original)** A polymer composition according to claim 15 wherein said molded article is selected from the group consisting of windshields, skylights, outdoor signs, boat surfaces, automobile tail lights, display cases, light fixtures, shower stalls, spas, bathroom basins, and counter tops, hot tubs, shelving, decorative laminates and other structural items.
17. **(Currently Amended)** A method of manufacturing an antimicrobial acrylic polymer composition, comprising ~~the steps of:~~  
combining a quantity of 2,4,4'-trichloro-2'-hydroxydiphenyl ether and orthophenyl phenol with an acrylic polymer precursor material to form an antimicrobial acrylic polymer composition wherein the combined weight concentration of the 2,4,4'-trichloro-2'-hydroxydiphenyl ether and orthophenyl phenol in the polymer composition is between

about 250 ppm and about 50,000 ppm based upon the weight of the polymer precursor composition.

18. **(Original)** A method according to claim 17 further comprising the step of forming the antimicrobial acrylic polymer composition into a sheet.

19. **(Currently Amended)** A method according to claims claim 17 or 18 wherein the 2,4,4'-trichloro-2'-hydroxydiphenyl ether is present between about 1000 ppm and 2500 ppm and the orthophenyl phenol is present between about 1000 ppm and 2500 ppm.

20. **(Currently Amended)** A method according to claims claim 17 or 18 wherein the 2,4,4'-trichloro-2'-hydroxydiphenyl ether and the orthophenyl phenol are combined with the acrylic polymer composition by adding both to a the precursor of the acrylic polymer composition.

21. **(Currently Amended)** A method according to claims claim 17 or 18 wherein the weight ratio of 2,4,4'-trichloro-2'-hydroxydiphenyl ether to orthophenyl phenol in the polymer precursor composition is between about 90:10 and 10:90.

22. **(Currently Amended)** A method according to claims claim 17 or 18 wherein the weight ratio of 2,4,4'-trichloro-2'-hydroxydiphenyl ether to orthophenyl phenol in the polymer precursor composition is between about 60:40 and 40:60.

Rule 126 ~~23.~~ **(Not Included in Originally Filed Claims)**

TY 8/21/08

23 ~~24.~~ **(Currently Amended)** A method according to claim 18 wherein the step of forming the polymer into an acrylic sheet is selected from the group consisting of comprises casting the an acrylic polymer precursor syrup and extruding the syrup.

TY 24 ~~25~~ (Original) A method according to claim 18 further comprising molding the  
8/21/08 thermoformable acrylic sheet into a product.

24  
25 ~~26~~ (Original) A method according to claim 25 wherein the product is selected  
from the group consisting of windshields, skylights, outdoor signs, boat surfaces,  
automobile tail lights, display cases, light fixtures, shower stalls, spas, bathroom basins,  
and counter tops, hot tubs, shelving, decorative laminates and other structural items.